# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 1633 | 709/231.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:04 |
| L2 | 1600 | 718/100.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:04 |
| L3 | 2146 | 713/300.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:04 |
| L4 | 417 | 713/310.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:05 |
| L5 | 1198 | 713/320.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:05 |
| L6 | 2152 | 713/321-324.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:05 |
| L7 | 319 | 713/330.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:05 |
| L8 | 665 | 713/340.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:05 |
| L9 | 917 | 719/310.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:05 |

# EAST Search History

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|---|---|---|---|---|---|---|
| L10 | 371 | 715/866.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:05 |
| L11 | 521 | 340/870.18.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:06 |
| L12 | 74 | 714/810.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:06 |
| L13 | 519 | 455/103.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:06 |
| L14 | 9051 | 709/201-203.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:06 |
| L15 | 1404 | 709/200.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:06 |
| L16 | 28947 | 709/217-236.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:06 |
| L17 | 428 | maximum near5 transmission near5 power near5 level | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:07 |
| L18 | 13 | l17 and signal near5 path near5 gain | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:07 |
| L19 | 3996 | signal near5 path near5 gain | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:07 |

# EAST Search History

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|---|---|---|---|---|---|---|
| L20 | 525 | l19 and error near5 rate | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:08 |
| L21 | 196 | l20 and wireless | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:08 |
| L22 | 147 | l21 and modulation | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/22 15:08 |
| S1 | 387 | signal adj2 interference adj plus adj noise adj ratio | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:28 |
| S2 | 59 | S1 same error adj rate | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:28 |
| S3 | 22 | S2 and wireless and stream$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:34 |
| S4 | 18 | S3 and SINR | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:52 |
| S5 | 93 | BER near3 combin$6 near3 BER | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:53 |
| S6 | 0 | BER near3 combin$6 near3 SINR | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:53 |
| S7 | 21 | BER same combin$6 same SINR | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:53 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S8 | 0 | BER near5 combin$6 near5 SINR | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:54 |
| S9 | 3 | BER near10 combin$6 near10 SINR | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:56 |
| S10 | 0 | leung-kin.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:57 |
| S11 | 2 | chawla-kapil.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:57 |
| S12 | 46 | leung-kin$.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:57 |
| S13 | 20 | chawla-kapil$.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:57 |
| S14 | 17 | driessen-peter$.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:57 |
| S15 | 41 | qiu-xiaoxin$.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:57 |
| S16 | 40 | l11-l15 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:58 |
| S17 | 107 | S11 or S12 or S13 or S14 or S15 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:58 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S18 | 0 | S17 and streaming adj service | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 14:58 |
| S19 | 3 | S17 and stream$5 and link adj adaptation | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:17 |
| S20 | 43 | PER near5 SINR | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:22 |
| S21 | 43 | S20 and wireless | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:24 |
| S22 | 0 | S21 and music | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:22 |
| S23 | 0 | S21 and MPEG4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:22 |
| S24 | 0 | S20 and error adj based | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:24 |
| S25 | 7 | S20 and error near2 based | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:38 |
| S26 | 6 | link adj adaptation and modulation and coding adj level | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:43 |
| S27 | 0 | predicted adj interference adj power adj level | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:43 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S28 | 3 | predict$5 near5 interference adj power adj level | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:45 |
| S29 | 106 | (MPEG4 or MPEG adj "4") near5 (AAC or (Advanced adj audio adj coder)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:46 |
| S30 | 1 | S29 and EGPRS | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:47 |
| S31 | 0 | S29 and link adj adaptation | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:47 |
| S32 | 0 | S29 and SINR | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:47 |
| S33 | 43 | S29 and PER | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:48 |
| S34 | 10 | S33 and streaming | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:47 |
| S35 | 43 | S29 and PER | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:50 |
| S36 | 41 | packet adj switched adj bearers | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:54 |
| S37 | 0 | S36 and error near5 concealment near5 technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:51 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S38 | 272 | error near5 concealment near5 technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:51 |
| S39 | 215 | error adj concealment adj technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:51 |
| S40 | 21 | S39 and receiving adj end | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:52 |
| S41 | 4 | S39 same receiving adj end | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:52 |
| S42 | 6 | S36 same stream$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:57 |
| S43 | 9 | EGPRS and power adj3 technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:03 |
| S44 | 1 | EGPRS and signal adj path adj gain | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:04 |
| S45 | 2 | SINR same signal adj path adj gain | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:08 |
| S46 | 3 | SINR and signal adj path adj gain | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:10 |
| S47 | 8 | SINR same path adj gain | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:20 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S48 | 1 | ("6374117").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 17:14 |
| S49 | 1 | ("6760313").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 17:32 |
| S50 | 0 | music adj delivery adj service and SINR | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 17:33 |
| S51 | 44 | music adj delivery adj service | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 17:36 |
| S52 | 3 | S51 and cellular | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 17:33 |
| S53 | 0 | S51 and MPEG4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 17:34 |
| S54 | 1 | S51 and MPEG adj "4" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 17:34 |
| S55 | 10 | S51 and wireless | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 17:51 |
| S56 | 1 | ("6856812").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 17:57 |
| S57 | 1 | ("6282209").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 18:19 |
| S58 | 1 | ("5901186").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 18:26 |
| S59 | 2 | (("5901186") or ("6,760,313")).PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 18:28 |
| S60 | 19 | interval same power adj control adj technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:28 |

# EAST Search History

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| S61 | 19 | S60 and intervals same power adj control adj technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:28 |
| S62 | 2 | S60 and intervals same power adj control adj technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:34 |
| S63 | 0 | intervals same link adj adaptation adj technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:35 |
| S64 | 0 | periodic same link adj adaptation adj technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:35 |
| S65 | 8 | intervals and link adj adaptation adj technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:37 |
| S66 | 29 | intervals and link adj adaptation adj technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:37 |
| S67 | 0 | intervals same periodic and link adj adaptation adj technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:37 |
| S68 | 5 | intervals and periodic and link adj adaptation adj technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:43 |
| S69 | 61 | link adj adaptation adj technique | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:43 |
| S70 | 1130612 | S69 and period$5 or interval | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:43 |

# EAST Search History

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| S71 | 47 | S69 and (period$5 or interval) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:43 |
| S72 | 33 | S69 and (periodic or interval) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:44 |
| S73 | 9 | S69 and (periodic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:45 |
| S74 | 24 | S72 not S73 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:51 |
| S75 | 230 | signal adj path adj gain | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 18:51 |
| S76 | 197 | signal adj path adj gain | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:51 |
| S77 | 4 | S76 and transmission adj power adj level | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:52 |
| S78 | 2647208 | S77 and predicted adj interference adj power level | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:52 |
| S79 | 4 | S77 and (predicted adj interference adj power level) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:53 |
| S80 | 0 | S77 and (predicted adj interference adj power adj level) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:53 |

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| S81 | 0 | (predicted adj interference adj power adj level) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:53 |
| S82 | 140 | (interference adj power adj level) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:53 |
| S83 | 1 | S77 and (interference adj power adj level) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 18:59 |
| S84 | 2 | predict$5 near5 (interference adj power adj level) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:08 |
| S85 | 79 | maximum adj transmission adj power adj level | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:10 |
| S86 | 1 | S85 and SINR | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:09 |
| S87 | 42 | S85 and wireless | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:09 |
| S88 | 3 | S87 and signal adj path | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:09 |
| S89 | 3 | (US-20050135312-$).did. or (US-6952181-$ or US-6657214-$). did. | US-PGPUB; USPAT | OR | ON | 2005/10/24 19:10 |
| S90 | 3 | S89 and maximum adj transmission adj power adj level | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:24 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S91 | 55 | SIPNR | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:24 |
| S92 | 192 | signal adj interference adj plus adj noise adj ratio | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:33 |
| S93 | 94 | S92 and error adj rate | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:27 |
| S94 | 0 | S93 and signal adj path adj gain | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:26 |
| S95 | 1 | S93 and maximum adj transmission adj power adj level | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:26 |
| S96 | 13 | S93 and predict$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:27 |
| S97 | 13 | (US-20050068922-$ or US-20040208251-$ or US-20030086366-$ or US-20020186761-$ or US-20020093926-$ or US-20020075830-$ or US-20020067761-$).did. or (US-6882678-$ or US-6463295-$ or US-6389066-$ or US-6215827-$ or US-6108374-$ or US-5886988-$). did. | US-PGPUB; USPAT | OR | ON | 2005/10/24 19:45 |
| S98 | 13 | S97 and signal adj interference adj plus adj noise adj ratio | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:43 |
| S99 | 4 | divid$5 same interference adj power adj level | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 19:44 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S100 | 11 | S92 near5 estimat$5 | US-PGPUB; USPAT | OR | ON | 2005/10/24 19:45 |
| S101 | 1 | ("5778224").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/26 16:02 |
| S102 | 1 | ("5799173").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/26 16:02 |
| S103 | 1 | ("6044225").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/26 20:20 |
| S104 | 1 | ("6223274").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/27 17:56 |
| S105 | 1 | ("6,751,663").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/27 17:56 |
| S106 | 1 | ("6,625,657").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/27 17:57 |
| S107 | 1 | ("6,405,251").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/27 17:57 |
| S108 | 4981 | leung$.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:19 |
| S109 | 47 | leung-kin$.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:19 |
| S110 | 20 | chawla-kapil$.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:19 |
| S111 | 17 | driessen-peter$.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:20 |
| S112 | 1 | qui-xiaoxin$.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:20 |
| S113 | 8732 | at&t$.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:20 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S114 | 8784 | S109 or S110 or S111 or S112 or S113 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:20 |
| S115 | 4 | S114 and link adj adaptation | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:24 |
| S116 | 158 | S114 and power adj control$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:25 |
| S117 | 0 | S116 and signal adj to adj noise | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:21 |
| S118 | 0 | S116 and signal adj to adj2 noise | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:25 |
| S119 | 29 | S116 and signal adj3 noise | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:23 |
| S120 | 7888 | 709/230-238.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:23 |
| S121 | 1330 | 709/200.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:23 |
| S122 | 0 | "709".201-203.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 19:24 |
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1 Energy Awareness and Power Control: Minimum energy paths for reliable communication in multi-hop wireless networks

Suman Banerjee, Archan Misra

June 2002 **Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing**

**Publisher:** ACM Press

Full text available: pdf(189.29 KB) Additional Information: full citation, abstract, references, citings, index terms

Current algorithms for minimum-energy routing in wireless networks typically select minimum-cost multi-hop paths. In scenarios where the transmission power is fixed, each link has the same cost and the minimum-hop path is selected. In situations where the transmission power can be varied with the distance of the link, the link cost is higher for longer hops; the energy-aware routing algorithms select a path with a large number of small-distance hops. In this paper, we argue that such a formulati ...

**Keywords:** ad-hoc networks, energy efficiency, routing

2 Wireless intraoffice networks

K. Pahlavan

July 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 3

**Publisher:** ACM Press

Full text available: pdf(1.98 MB) Additional Information: full citation, abstract, references, citings, index terms, review

An overview of the existing and growing demands for wireless office information networks is provided, and the existing research activities are assessed in some detail. The radio frequency (RF) and infrared (IR) communication technologies are examined as candidates for wireless intraoffice communications. The available bandwidths, according to federal regulations and characteristics of the channel for RF communications, are given. Digital narrow-band and wideband spread-spectrum RF communica ...

3 Wireless LAN optimizations: MiSer: an optimal low-energy transmission strategy for IEEE 802.11a/h

Daji Qiao, Sunghyun Choi, Amit Jain, Kang G. Shin

September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**

**Publisher:** ACM Press

Full text available: pdf(248.70 KB) Additional Information: full citation, abstract, references, citings, index terms

Reducing the energy consumption by wireless communication devices is perhaps the most important issue in the widely-deployed and exponentially-growing IEEE 802.11 Wireless LANs (WLANs). TPC (Transmit Power Control) and PHY (physical layer) rate adaptation have been recognized as two most effective ways to achieve this goal. The emerging 802.11h standard, which is an extension to the current 802.11 MAC and the high-speed 802.11a PHY, will provide a structured means to support intelligent TPC.In t ...

**Keywords**: IEEE 802.11a/h, MiSer, PHY rate adaptation, TPC

4 PARO: supporting dynamic power controlled routing in wireless ad hoc networks
Javier Gomez, Andrew T. Campbell, Mahmoud Naghshineh, Chatschik Bisdikian
September 2003 **Wireless Networks**, Volume 9 Issue 5
**Publisher:** Kluwer Academic Publishers
Full text available: pdf(311.95 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper introduces PARO, a dynamic power controlled routing scheme that helps to minimize the transmission power needed to forward packets between wireless devices in ad hoc networks. Using PARO, one or more intermediate nodes called "redirectors" elects to forward packets on behalf of source-destination pairs thus reducing the aggregate transmission power consumed by wireless devices. PARO is applicable to a number of networking environments including wireless sensor networks, home networks ...

**Keywords**: ad hoc networks, power control, power optimization, routing protocols

5 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels
Glenn Judd, Peter Steenkiste
August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**
**Publisher:** ACM Press
Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, index terms

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

**Keywords**: channel capture, emulation, wireless

6 Wide-band TD-CDMA MAC with minimum-power allocation and rate- and BER-scheduling for wireless multimedia networks
Xudong Wang
February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1
**Publisher:** IEEE Press
Full text available: pdf(523.38 KB) Additional Information: full citation, abstract, references, index terms

A wide-band time-division-code-division multiple-access (TD-CDMA) medium access control (MAC) protocol is introduced in this paper. A new minimum-power allocation algorithm is developed to minimize the interference experienced by a code channel such that heterogeneous bit-error rate (BER) requirements of multimedia traffic are satisfied. Further, from analysis of the maximum capacity of a time slot, it is concluded that both rate and BER scheduling are necessary to reach a maximum capacity. Base ...

**Keywords**: bit-error rate (BER), medium access control (MAC), minimum-power allocation, quality of service (QoS), wide-band TD-CDMA

7 Resource Control and QoS in Wireless Systems: Resource control for elastic traffic in CDMA networks
Vasilios A. Siris
September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**
**Publisher:** ACM Press
Full text available: pdf(467.48 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a framework for resource control in CDMA networks carrying elastic traffic, considering both the uplink and the downlink direction. The framework is based on microeconomics and congestion pricing, and seeks to exploit the joint control of the transmission rate and the signal quality in order to achieve efficient utilization of network resources, in a distributed and decentralized manner. An important feature of the framework is that it incorporates both the congestion for shared resou ...

**Keywords**: congestion pricing, radio resource management, rate control, utility functions, wireless/wired integration

8 Signal design and system operation of Globalstar versus IS-95 CDMA—similarities and differences
Leonard Schiff, A. Chockalingam
January 2000 **Wireless Networks**, Volume 6 Issue 1
**Publisher:** Kluwer Academic Publishers
Full text available: pdf(273.24 KB) Additional Information: full citation, abstract, references, index terms

The Globalstar^{TM} system provides telephone and data services to and from mobile and fixed users in the area between ± 70 degrees latitude. Connection between user terminals and the PSTN is established through fixed terrestrial gateways via a constellation of low earth orbiting (LEO) satellites. Globalstar uses an extension of the IS‐95 CDMA standard that is used in terrestrial digital cellular systems. The LEO satellite link is ...

9 Low power converter circuits: 2.45 GHz power and data transmission for a low-power autonomous sensors platform
Stefano Gregori, Yunlei Li, Huijuan Li, Jin Liu, Franco Maloberti
August 2004 **Proceedings of the 2004 international symposium on Low power electronics and design**
**Publisher:** ACM Press
Full text available: pdf(710.58 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a power conversion and data recovery system for a microwave powered sensor platform. A patch microwave antenna, a matching filter and a rectifier make the system frontend and implement the RF-to-DC conversion of power carrier. The efficiency of the power conversion is as high as 47% with an input power level 250 μW at 2.45 GHz. Then, a 0.18 μm CMOS integrated circuit extracts the clock and the digital data. A modified pulse amplitude modulation scheme is used to modulate the ...

**Keywords**: RF to DC power conversion, low power clock and data recovery, microwave power transmission, wireless sensor

10 Mobile power management for wireless communication networks
John M. Rulnick, Nicholas Bambos
March 1997 **Wireless Networks**, Volume 3 Issue 1
**Publisher:** Kluwer Academic Publishers
Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(274.39 KB) terms, review

For fixed quality-of-service constraints and varying channel interference, how should a mobile node in a wireless network adjust its transmitter power so that energy consumption is minimized? Several transmission schemes are considered, and optimal solutions are obtained for channels with stationary, extraneous interference. A simple dynamic power management algorithm based on these solutions is developed. The algorithm is tested by a series of simulations, including the extraneous-interfer ...

11 Routing 1: Efficient geographic routing in multihop wireless networks
Seungjoon Lee, Bobby Bhattacharjee, Suman Banerjee
May 2005 **Proceedings of the 6th ACM international symposium on Mobile ad hoc networking and computing MobiHoc '05**
**Publisher:** ACM Press
Full text available: pdf(257.99 KB) Additional Information: full citation, abstract, references, index terms

We propose a new link metric called *normalized advance (NADV)* for geographic routing in multihop wireless networks. NADV selects neighbors with the optimal trade-off between proximity and link cost. Coupled with the local next hop decision in geographic routing, NADV enables an adaptive and efficient cost-aware routing strategy. Depending on the objective or message priority, applications can use the NADV framework to minimize various types of link cost.We present efficient methods for li ...

**Keywords**: geographic routing, link cost estimation, routing metric, wireless multihop networks

12 Best poster papers from MobiHoc 2002: An on-demand minimum energy routing protocol for a wireless ad hoc network
Sheetalkumar Doshi, Shweta Bhandare, Timothy X Brown
June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 3
**Publisher:** ACM Press
Full text available: pdf(203.93 KB) Additional Information: full citation, abstract, references, citings, index terms

A minimum energy routing protocol reduces the energy consumption of the nodes in a wireless ad hoc network by routing packets on routes that consume the minimum amount of energy to get the packets to their destination. This paper identifies the necessary features of an *on-demand* minimum energy routing protocol and suggests mechanisms for their implementation. We highlight the importance of efficient caching techniques to store the minimum energy route information and propose the use of an ...

13 Networking experience: Understanding packet delivery performance in dense wireless sensor networks
Jerry Zhao, Ramesh Govindan
November 2003 **Proceedings of the 1st international conference on Embedded networked sensor systems**
**Publisher:** ACM Press
Full text available: pdf(501.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Wireless sensor networks promise fine-grain monitoring in a wide variety of environments. Many of these environments (*e.g.*, indoor environments or habitats) can be harsh for wireless communication. From a networking perspective, the most basic aspect of wireless communication is the packet delivery performance: the spatio-temporal characteristics of packet loss, and its environmental dependence. These factors will deeply impact the performance of data acquisition from these networks.In th ...

**Keywords**: low power radio, packet loss, performance measurement

14 SpectrumWare: a software-oriented approach to wireless signal processing
David L. Tennenhouse, Vanu G. Bose
December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**
**Publisher:** ACM Press
Full text available: pdf(1.29 MB) Additional Information: full citation, references, index terms

15 Routing optimizations: Minimum energy disjoint path routing in wireless ad-hoc networks
Anand Srinivas, Eytan Modiano
September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**
**Publisher:** ACM Press
Full text available: pdf(452.89 KB) Additional Information: full citation, abstract, references, citings, index terms

We develop algorithms for finding minimum energy disjoint paths in an all-wireless network, for both the node and link-disjoint cases. Our major results include a novel polynomial time algorithm that optimally solves the minimum energy 2 link-disjoint paths problem, as well as a polynomial time algorithm for the minimum energy k node-disjoint paths problem. In addition, we present efficient heuristic algorithms for both problems. Our results show that link-disjoint paths consume substantially le ...

**Keywords**: disjoint paths, distributed algorithms, energy efficiency, minimum energy, multipath routing, wireless ad-hoc networks

16 A rate-adaptive MAC protocol for multi-Hop wireless networks
Gavin Holland, Nitin Vaidya, Paramvir Bahl
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**
**Publisher:** ACM Press
Full text available: pdf(467.95 KB) Additional Information: full citation, abstract, references, citings, index terms

Wireless local area networks (W-LANs) have become increasingly popular due to the recent availability of affordable devices that are capable of communicating at high data rates. These high rates are possible, in part, through new modulation schemes that are optimized for the channel conditions bringing about a dramatic increase in bandwidth efficiency. Since the choice of which modulation scheme to use depends on the current state of the transmission channel, newer wireless devices often supp ...

17 The SpectrumWare approach to wireless signal processing
David L. Tennenhouse, Vanu G. Bose
March 1996 **Wireless Networks**, Volume 2 Issue 1
**Publisher:** Kluwer Academic Publishers
Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings, index terms

The SpectrumWare project is applying a software oriented approach to wireless communication and distributed signal processing. Advances in processor and analog-to-digital conversion technology have made it possible to implement virtual radios that directly sample wide bands of the RF spectrum and process these samples in application software. The elimination of dedicated hardware introduces tremendous flexibility into a wireless communication system. Our approach goes further than the softw ...

18 MR$^2$RP: the multi-rate and multi-range routing protocol for IEEE 802.11 ad hoc wireless networks
Shiann-Tsong Sheu, Yihjia Tsai, Jenhui Chen

March 2003 **Wireless Networks**, Volume 9 Issue 2
**Publisher:** Kluwer Academic Publishers
Full text available: pdf(252.69 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses the issue of routing packets over an IEEE 802.11 *ad hoc* wireless network with multiple data rates (1/2/5.5/11 Mb/s). With the characteristics of modulation schemes, the data rate of wireless network is inversely proportional with the transmission distance. The conventional shortest path of minimum-hops approach will be no longer suitable for the contemporary multi-rate/multi-range wireless networks ($MR^2WN$). In this paper, we will propose an efficient delay- ...

**Keywords**: ad hoc, local area network (LAN), medium access control (MAC), routing, wireless

19 CyPhone—bringing augmented reality to next generation mobile phones
Tino Pyssysalo, Tapio Repo, Tuukka Turunen, Teemu Lankila, Juha Röning
April 2000 **Proceedings of DARE 2000 on Designing augmented reality environments**
**Publisher:** ACM Press
Full text available: pdf(6.46 MB) Additional Information: full citation, abstract, references, index terms

We describe a prototype implementation of a future mobile phone called CyPhone. In addition to voice calls, it has been designed to support context-specific and multi-user multimedia services in an augmented reality manner. Context-awareness has been implemented with GPS-based navigation techniques and a registration algorithm, capable of detecting a predefined 3-D model or a landmark in the environment. A new adaptive transport protocol has been developed to support real-time packet-switched ...

**Keywords**: mobile communication, navigation, networked virtual reality, real-time data transport protocols, registration

20 Interference in wireless multi-hop ad-hoc networks and its effect on network capacity
Ramin Hekmat, Piet Van Mieghem
July 2004 **Wireless Networks**, Volume 10 Issue 4
**Publisher:** Kluwer Academic Publishers
Full text available: pdf(552.50 KB) Additional Information: full citation, abstract, references, index terms

In this paper we propose a new model to calculate interference levels in wireless multi-hop ad-hoc networks. This model computes the expected value of Carrier to Interference ratio *(C/I)* by taking into account the number of nodes, density of nodes, radio propagation aspects, multi-hop characteristics of the network, and the amount of relay traffic. The expected values of *C/I* are used to determine network capacity and data throughput per node. Our model uses a regular lattice for po ...

**Keywords**: ad-hoc networks, analytical methods, interference, modelling, sensor networks, throughput

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12. **Power minimization under constant throughput constraint in wireless networks with beamforming**
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